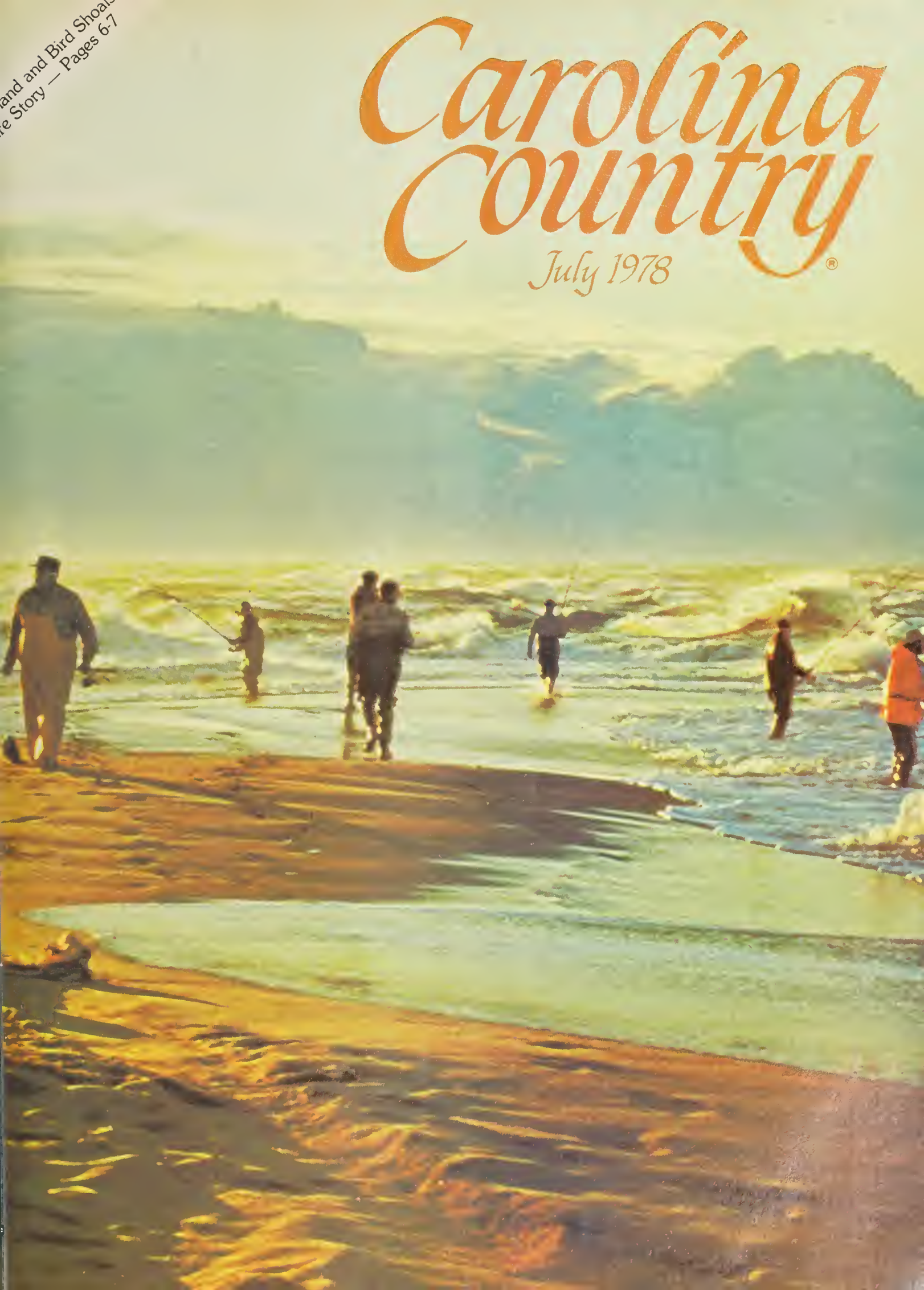
and and Bird Shoal
e Story — Pages 6-7

Carolina Country®

July 1978



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NRECA Service Center for ELCO Programs
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076-4

Tapping Farmland For Fuel

grain alcohol can stretch oil supplies

Residents of five Iowa towns witnessed a curious incident last month which suggests there may be a few silver linings in the doomsday clouds that hang heavily over America's energy future.

The incident involved hordes of Cornbelt state motorists descending on service stations to buy a mixture of gasoline and alcohol as part of a test of the fuel.

One station sold about 1,000 gallons of the fuel during the first several hours after it went on sale, and another sold 600 gallons in two hours. And the fuel's per-gallon price was generally well above the price of conventional gasoline.

"It sure has caused a lot of excitement," said one station manager. "Everybody wants to try it."

The "gasohol" fuel is a blend of 90 percent gasoline and 10 percent grain alcohol. It is seen as offering a means of stretching the nation's dwindling petroleum supplies.

The alcohol fuels — ethanol and methanol — are derived primarily from renewable and abundant resources such as agricultural and forestry products. Ethanol can be produced from such diverse sources as corn, wheat, milo, sugar beets, potatoes, algae, distressed crops and crop residues. Methanol can be made from forestry products, wood, municipal wastes and coal.

The fuels already have the attention of Congress, where the Senate Appropriations Committee held hearings on the subject earlier this year, with an eye on establishing a comprehensive national alcohol fuels policy. Since then, the Senate Energy and Natural Resources Committee has endorsed a proposal for a National Alcohol Fuels Commission comprised of 12 members of Congress and seven public members appointed by the president.

Editorials

The commission would "take a good, close look at alcohol fuels and how they can best be put to beneficial use," said Sen. Birch Bayh (D-Ind.), an outspoken advocate of alcohol fuel development and chief sponsor of the bill to establish the commission. In addition, Congress is considering an appropriation to finance testing of vehicles powered by alcohol fuels.

Meanwhile, the lawmakers have already adopted legislation allowing farmers to use their set-aside acreage — land previously left to lie fallow as a means of controlling overproduction — for the production of "energy crops."

It's refreshing to see Congress moving with such dispatch to encourage the use of this important energy supplement, which can significantly reduce the nation's dependence on petroleum products while also opening new markets for American farmers.

Carolina Country Salutes:

- Jugtown potter Vernon Owens, who took the unprecedented step of returning a grant which had been given him in 1970 by the North Carolina Arts Council. Owens even returned the money with "interest." His grant was for $2,500 and he returned $3,000, stipulating that half of it be used to help finance the North Carolina Folklife Festival in Durham. "We're just trying to give others the same support we got when we needed it," he said.
- Richard Oster of Garden City, N.Y., who successfully challenged the nation's second-largest commercial bank for levying a service fee on credit card accounts even though customers paid bills promptly and incurred no finance charges. His contention that the fees are illegal was upheld by a New York State Supreme Court judge, who ordered the bank to refund all the 50-cents-a-month fees it had imposed on customers for a period of 20 months.
- The North Carolina General Assembly, for adopting a bill to cover about $70,000 in medical bills and other expenses of Lisa Haney, the Yancey County teen-ager who was paralyzed for life in a 1976 school bus accident. After a 1977 bill for this purpose ran into legal problems, Sen. I. C. Crawford (D-Buncombe) pushed for the new measure's adoption.

Carolina Country

Read Monthly In More Than 270,000 Homes
Vol. 10 No. 7 July 1978

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North Carolina Association of Electric Cooperatives, Inc.
James M. Hubbard — Executive Vice President & General Manager
Owen Bishop — Editor
Spencer Carter — Associate Editor
June M. Brotherton — Staff Writer
Milly Alford — Editorial Assistant

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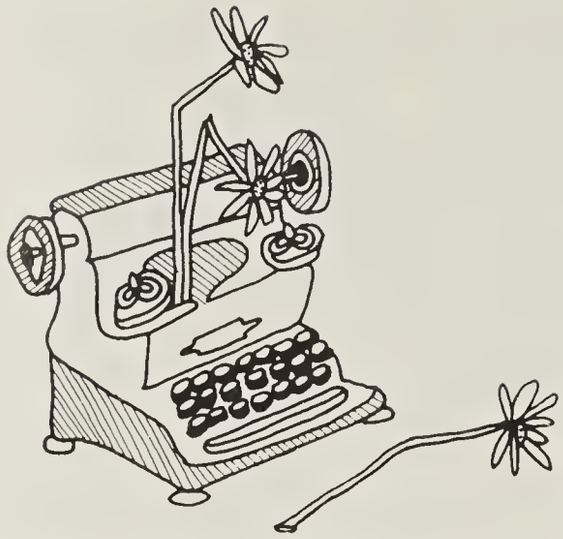
COVER—Clay Nolen, a photographer for the Division of Travel and Tourism, State Department of Commerce, shot this scene of surf fishing at the point on Cape Hatteras. It originally appeared in the *1978 Coastal Fishing and Vacation Guide*, which is published by The Graphic Press, Inc. of Raleigh. We are grateful to Braxton Flye, editor, for the use of these color separations. Copies of the guide are available by mail for $3 per copy, plus 50 cents for mailing. Orders should be sent to N.C. Coastal Fishing and Vacation Guide, The Graphic Press, Inc., P.O. Box 26808, Raleigh, NC 27611.



rural electric Notebook

ALTERNATE ENERGY DEVELOPMENT SUPPORTED

Consumer-members of Blue Ridge EMC, Lenoir, have adopted a resolution supporting continued research and development of various "non-traditional and alternate forms of energy," including wind generation, solar energy and nuclear energy. The resolution was one of three adopted by the co-op's membership at Blue Ridge's 1978 Annual Meeting in Boone on June 10. It was adopted in lieu of another resolution which favored development of nuclear power alone, and called for acceleration of the breeder reactor program.

The substitute resolution was submitted by Dr. William Derrick, an EMC member and a doctor at the Appalachian State University medical center, after several members expressed opposition to the original resolution. When the substitute was adopted, the original resolution was never considered for a vote.

Wire service reports on the meeting, which appeared in many North Carolina newspapers, erroneously reported that the membership had "rejected" a resolution supporting nuclear energy.

The membership also adopted resolutions supporting efforts by the statewide EMC organization to establish joint generation with the investor-owned utilities and calling on all EMC members to make use of energy conservation programs offered by the co-op.

SAVINGS ON LICENSING

The electric bill of an average famil could be reduced by about $40 a year over the 30-year lifetime of a nuclea power plant if licensing procedures could be shortened by three years, according to a study prepared by the Atomic Industrial Forum.

The study estimates that the cost of each 1,100 megawatt generating plant could be decreased by $260 million to $450 million if lead time could be cut back from 11 years to eight years In addition, demands on the available supply of capital would be decreased between $27 and $47 billion through 1985. This would tend to slow the increase of interest rates on money borrowed for other purposes, such as homes and cars.

CONSERVATION REQUIREMENT PLANNED

The Rural Electrification Administrat is developing regulations requiring rural electric cooperatives to includ energy conservation plans in all applications for future REA loans.

Alex P. Mercure, assistant secretary agriculture for rural development, directed REA to draft the regulations He also asked the National Rural Electric Cooperative Association to h develop an aggressive and effective energy conservation program and to he local co-ops develop their own progra

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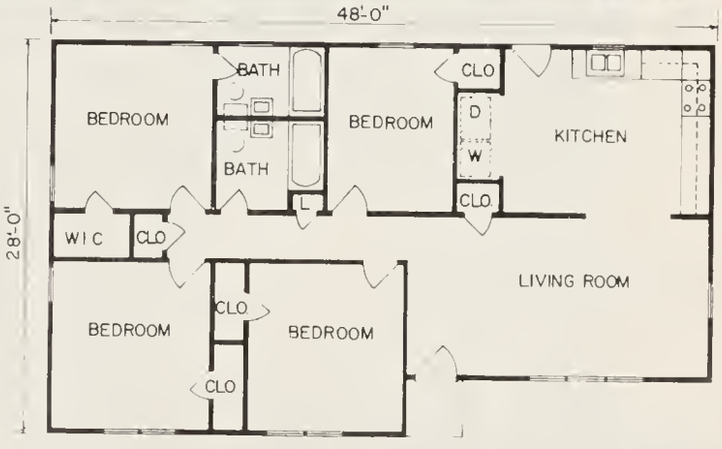

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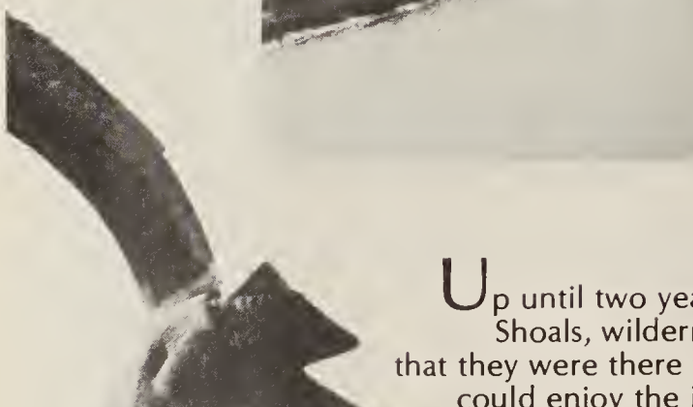
Carrot Island



photos & text
by Spencer Carter

Up until two years ago, nobody thought much about Carrot Island and Bir Shoals, wilderness islands stretching across the Beaufort waterfront excep that they were there for the pleasure of weekend naturalists and those folks wh could enjoy the islands from their own backyards. Just a short hop from th mainland, less than 50 yards in a boat, and visitors were seemingly far fro civilizatio

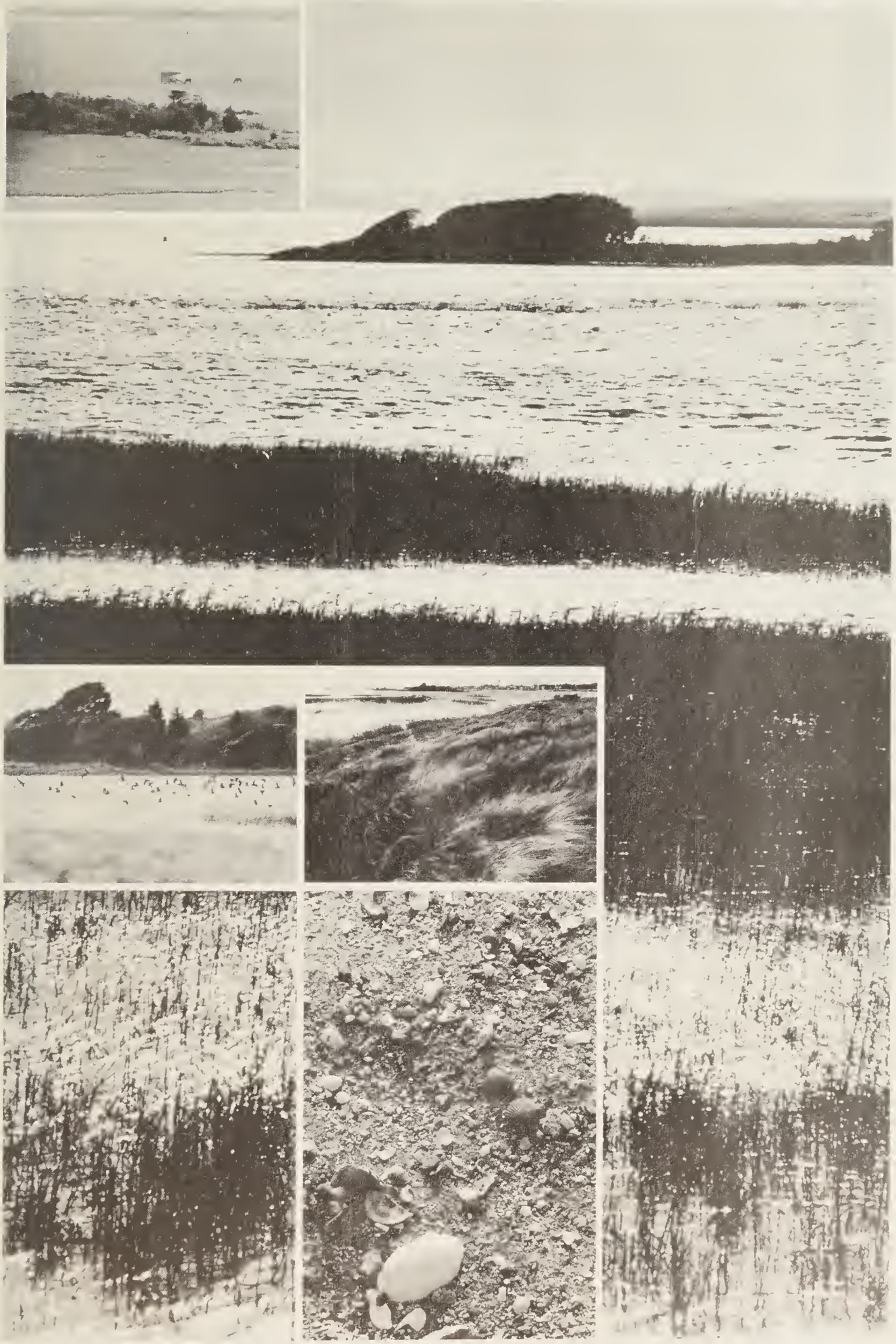
Those living just across Taylors Creek from the islands delighted in watch ing the wild horses and water fowl from their homes. Sea oats graced th sand hills. Fiddler crabs, sea urchins and all manner of life were arour or in it, as safe as though the island were a thousand miles fro human habitatio

Then, in April 1976, many of the townspeople were shaken by th news that 178.5 acres of Carrot Island had been bought by a Hig Point speculator who planned to auction five- and ten-acre lo for development. Because local people had seen the area u derwater during hurricanes, they had thought it unsuitab for development, yet potential buyers were intereste

As a result, a group of townspeople formed the Beaufo Nature Conservancy Council to fight the sale of lo

Hundreds of individuals made small donations for legal fee and three local industries made sizeable contributions towa purchasing the land. A national organization, The Natu Conservancy, provided money to complete the purchase ar Duke Foundation agreed to assist in fund raising to reimbur the Conservancy. Last September, the Beaufort group and t land owner came to terms for $250,000. The land was save but it had been quite a batt

(Continued on Page 9)



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CC-6-78

Mailbox

So the Turos (Mailbox, April, '78) and the Fulks (Mailbox, May, '78) espouse solar energy! Good for them! What has their experience been with it? I'll bet nil!

Years ago I endured a solar heated water system for eight months. During that time there was never enough hot water to complete laundry for three adults in one operation; when you washed clothes you didn't wash yourself; baths were scheduled and No. 3 usually had a cold shower.

Then we went to an electric booster on the hot water system. Hot water when you wanted it!!! At last!!!!! Bravo!!!!! — until we came home one day after a three-day trip out of town and water came rushing out the door to meet us! The solar system had come unglued and 75 percent of the house and furnishings were soaked and ruined. After extensive and expensive repairs, we went to all-electric water heating — and our bill literally went up pennies! This happened in "sunny" Florida whose Chamber of Commerce boasts of the solar output in that region!!!

In this day and age, nuclear energy is the only way to go. Risks? Of course there are risks. Getting up in the morning is a risk; driving down the road is a risk; in this age of cancerphobia, eating and breathing are risks! And, if you watch TV, the "experts" have it that you're bathed in radiation. How long has it been since you turned off your TV Turos and Fulks?

And while we're about it, the nuclear waste can run down my driveway into my back yard regularly and often. With today's technology, if that's all I had to worry about, how lucky I would be!!!

The thing that really tickles me in this nuclear debate is that infinitesimal though it may be, this time the risk involves the general public — the guy down the road, you and me, too! For years I could care less that a miner, slaving like a mole in the bowels of the earth might have his life snuffed but like a candle at any minute or an oil field worker in sludge and grease might light up the countryside like a roman candle. Fine. Be my guest. Those poor slobs get paid for it! With nuclear energy there's a *possibility* that my precious hide might get it! In which case, say the nuclear opponents, Halt! Whoa! Cease and desist!!!

If we don't wake up to the fact that nuclear energy, with the necessary safeguards its nature imposes, will soon be the major source of our heat, comfort and convenience, we'll wake up cold and hungry, having gone to bed in the dark.

Bette Brockhaus
Rt. 2, Murphy

I can not tell you how much I appreciate the book review of my *Bass Fishing in North Carolina*. It really captured exactly what I tried to do in the book. Although I have had favorable reviews in almost every newspaper in the state, yours was one of the very best.

By the way, I used to do quite a bit of free-lance work for *Carolina Country*. Again, thank you very, very much.

Buck Paysour
Greensboro

Carrot Island—*Continued from Page 7*

It would have been a significant loss. The late Rachel Carson describes the abundance of living creatures in the area in her book "The Edge of the Sea." A local scientist says the number and variety of nesting birds on the island are "just fantastic."

So now almost everybody is happy. The owner of the land made a profit on the sale, Duke University still has use of the island for field trips, and local people can continue to enjoy all the island offers in its natural state.

During mating season, the wild stallions will still fight over the mares. The sounds of birds and the beauty of their flight will grace the area. And thousands of tiny sea animals, unseen by most, will live out their brief lives, providing a link in the food chain that sustains the larger animals — the birds, fish and other creatures that make their home on Carrot Island and Bird Shoals.

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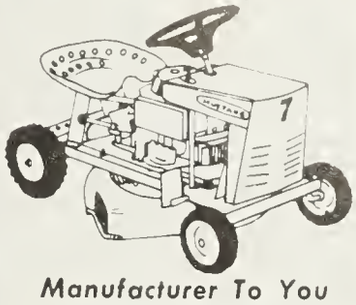

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James S. Melton of Hubert, secretary-treasurer of Jones-Onslow EMC and a director of the N.C. Association of Electric Cooperatives, has been presented the fifth Distinguished Alumnus Award of the School of Agriculture and Life Sciences at N.C. State University. The Onslow County horticulturist, a 1938 graduate of NCSU, is vice president of Pettiway Home and Garden Center at Jacksonville and president of New River Nursery, which he founded in 1946. In commenting on the award, Dr. J. E. Legates, dean of the NCSU school, said, "Jimmy Melton has left a mark that will affect the lives of North Carolinians for years to come."

Harold L. Lile of Raleigh, state administrative officer for the U.S. Soil Conservation Service, has been designated the 1978 "Boss of the Year" by the Tar Heel chapter of the American Business Women's Association. Lile was nominated as a boss "who has encouraged, supported and exemplified fairness toward employees."

A horticulture scientist, a retired Farmers Home Administration executive and a retired agricultural extension chairman have been given the 1978 Distinguished Service Awards of the North Carolina Yam Commission. They are **William D. "Bill" Lewis**, retired Wilson County Extension chairman; **J. D. Wordsworth** of Nash County, retired FmHA executive; and **Dr. Albert A. Banadyga**, horticultural science extension specialist at N.C. State University. All three were cited for their contributions to sweet potato farming in North Carolina.

Three U.S. Department of Agriculture employees from North Carolina have been cited by the agency as part of the 32nd Annual Honor Awards program. They are **Paul R. Britt** of Troy, **James O. Buchanan** of Raleigh and **William B. Buffaloe** of Raleigh. Britt, who is with the Soil Conservation Service, was cited for "exceptional leadership, dedication and imagination in improving soil and water conservation programs" in Montgomery County. Buchanan, chief of rural housing with the Farmers Home Administration, was recognized for "development and direction of the nation's outstanding statewide rural housing credit program." Buffaloe, pesticide administrator of the State Department of Agriculture's Pesticide and Plant Protection Division, was honored for "significant contributions in the development of realistic pesticide laws and regulations on both the federal and state levels."

Magazine's Editors Take Two National Competition Awards

Two *Carolina Country* staffers have received Meri Awards in the 1978 national writing and photography evaluation competition sponsored by the Cooperative Editorial Association.

Editor Owen Bishop received an award for a stor he wrote covering the effects of January's ice and wind storms on the state's EMCs and their consumer members. It appeared in the March issue.

Associate Editor Spencer Carter received his award for a black-and-white photo of the inside of a hot ai balloon. It was one of several shots illustrating a stor on ballooning in the January issue.

The awards were presented at the CEA annua institute in New Orleans. CEA is a group of 30 professional cooperative communicators across th country.

EMC Training Consultant Named

A Rockingham man who formerly worked with Pe Dee Electric Membership Corporation, Wadesboro has been named a field consultant with the Jo Training and Safety program of the North Carolin Association of Electric Cooperatives.

John Brothers, a Rockingham native, will serve as the field consultant for Eastern North Carolina, conducting safety and training programs for employees in 22 EMC offices located east of Raleigh.

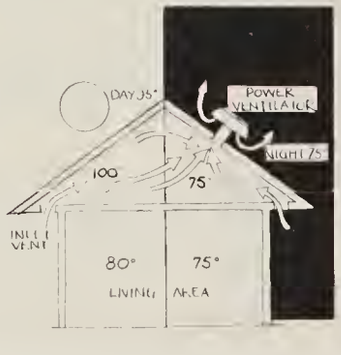
Brothers' appointment brings to three the tot number of employees under the EMCs' Job Trainin and Safety program, including a statewid coordinator and a field consultant for co-ops i Western North Carolina.

An East Carolina University graduate, Brothers has degree in geography and geology and was a defensiv halfback on the ECU football team.

He comes to the new job from a post with a coast soil erosion prevention firm. Earlier, he was employe by Pee Dee EMC in right-of-way work and as lineman.

He will be based in Greenville.

Savings Suggestions



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Chapel Hill Man Top Winner In State Cooking Competition

John H. Maddry of Chapel Hill has been named winner of the 15th Annual North Carolina Chicken Cooking Contest, which was held during May at North Carolina State University.

His entry, "Chicken Breasts with Honey-Wine Sauce," won Maddry a trip to Tampa, Fla., to compete in the National Chicken Cooking Contest slated for July 26.

Other contest winners were as follows: Mrs. Joseph A. Farmer, Granite Falls, second; Mrs. Helen Haft Goldstein, Cary, third; Mrs. Lynn von Roemer, Charlotte, fourth and Mrs. Anima De, Raleigh, fifth.

To obtain copies of the winning recipes, write to the N.C. Poultry Federation, Box 2431, Raleigh, NC 27602.

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Work Slated On Controversial Chicod Watershed

Work on the Chicod Creek Watershed Project in Pitt and Beaufort Counties is expected to begin during July, after a delay of almost seven years, according to Jesse Hicks, state conservationist with the U.S. Soil Conservation Service.

A project agreement for the work has been signed by local sponsors and the federal agency, ending legal maneuvers that had held up the work on environmental grounds and attracted national attention.

The green light to proceed with the work came with a compromise consent agreement signed by Federal Judge John Larkins. The agreement ended the lawsuit brought by the National Resources Defense Council and other groups against local sponsors and the SCS.

The first work to be done will consist of "clearing and snagging," or removal of fallen trees and other debris along three miles of stream in the Eastern North Carolina water resource project.

"In carrying out the improvements, we will keep environmental considerations uppermost throughout the work," Hicks added. For example, in the "clearing and snagging," sediment traps — areas of water flow where the stream is deepened and widened — will be provided at frequent intervals. To protect trees and shrubs in the area where work will be done, only small equipment will be used to prevent harm to trees and similar growth.

The balance of the work on the two-county watershed project will move ahead later in 1978, Hicks said. First project agreements for flood prevention will be signed, and contracts for the actual work will follow.

As in all Public Law 566 projects, SCS is responsible for maintaining high engineering standards on the actual work, which is paid for through federal funds under the watershed project law. Local sponsors are responsible for obtaining landrights to carry out the project, and also - following completion - are responsible for quality maintenance on the entire project.

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We're All In This Together. EMC

North Carolina's Electric Membership Corporations

State Officials Set Two Buyer-Supplier Conferences In August

The North Carolina Department of Commerce will sponsor two Buyer-Supplier Conferences in August in the interest of finding new markets for the state's smaller manufacturers and helping the larger industries locate products and services they need in North Carolina.

"Many major firms are going outside the state for goods and services simply because they don't know where to find them in North Carolina," said David Hinton of the Department of Commerce. "These conferences are designed to change that situation. It's a way of keeping North Carolina capital within the state."

The conferences are scheduled for Aug. 1 at Scott Pavilion on the North Carolina Fairgrounds in Raleigh and Aug. 8 at the Benton Convention Center in Winston-Salem. Both events will be from 9 a.m. to 4 p.m.

"We're expecting representatives of some of the state's largest companies to be on hand for this program. IBM is already committed to participate," Hinton said.

Other businesses interested in participating may contact Hinton, or Bill Mayberry, at the Department of Commerce, 430 N. Salisbury St., Raleigh, NC 27611. Phone: (919) 733-7980.

"It's not necessary that companies contact us in advance of the conferences," Hinton added. "But we're expecting 300 to 400 people at each conference, so if they're planning to just show up, they should come early."

Keeping Cool . . . . . And Conserving Energy

Keeping your cool while conserving energy is no easy trick. Most people can't get through the summer without the help of one or more fans or an air conditioner.

But because of the energy situation, these and all electrical appliances should be used sparingly as possible, according to agricultural extension specialists at North Carolina State University.

Here are a few tips from the specialists on keeping the hot air outside while still saving on electricity.

First of all, make the maximum use of cool, early-morning air. Open all the windows and allow the fresh air to circulate through the house. Shut the windows as soon as the outdoor temperature begins to rise.

When the sunlight and heat begin to be intense, around noon or early afternoon, close the drapes and pull down the shades. If you leave the house in the morning, do this before you leave.

Take advantage of the cooler night air by opening the windows, even if you use an air conditioner or fan during the day. However, be sure to wait until the coolness created by the air conditioner disappears. You'll be amazed how long the house remains cool after the air conditioner has been turned off, say the specialists.

If you use a central air conditioning system, keep the thermostat at 78 degrees F. A low fan speed and mid-point thermostat level are recommended for window-type air conditioners.

Don't turn the air conditioner on and off several times a day or move the thermostat up and down. This will consume more electricity.

Instead, take advantage of the automatic setting switch usually found on central air conditioner thermostats.

Don't forget that lighting amounts to 3.5 percent of a home's total energy bill and up to 16 percent of the total electric bill.

Since lights also generate heat, you and your house will stay cooler if you use fewer lights.

Solid-state dimmer switches will make it possible to regulate the lighting level.

For the rooms that require more light, consider using a single high-watt incandescent bulb instead of several low-wattage bulbs. A 100 watt bulb will produce the same amount of light as two 60 watt bulbs, but will use 20 percent less energy.

Flourescent lighting is even better. Flourescents are three times as energy-efficient as incandescent lights, last seven to ten times longer and generate less heat.

The World's Most Expensive Fish Bowl

It's hard not to cheer for the snail darter. Little fish conquers big government and all that. In proper perspective, however, the snail darter case illustrates how well-meaning laws can have ridiculous results.

A Supreme Court ruling Thursday (June 15) halted work on the $116 million Tennessee Tellico Dam. The dam, you see, threatens the three-inch snail darter, which needs shallow water to survive. And, the court agreed, the Endangered Species Act forbids the government from building a dam that promises such results.

commentary

Clearly, the law overall is a good one. But somewhere in its language there should be room for exceptions.

Construction on the Tellico Dam began in 1976, for example, six years before the endangered species statute was passed. Furthermore, in some instances an unyielding law requires economic sacrifices not balanced by environmental gains.

The current Congress is likely to revise the act to provide necessary exemptions. Meanwhile, the useless dam puts the snail darter in the world's most expensive fish bowl.

—Raleigh *News and Observer*

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Country Kitchen

GRILLED MARINATED LEG OF LAMB

Ms. Williams' Grilled Marinated Leg of Lamb recipe is the perfect answer for something new to try on the grill for those summer cookouts!

Served with roasted corn or rice pilaf and a green salad with oil and vinegar dressing, this recipe is sure to be a success with the backyard barbeque crowd and with you — no long, hot hours in the kitchen over the stove.

If you would like to share a recipe with this column, send it to: COUNTRY KITCHEN, P.O. Box 27306, Raleigh, N.C. 27611. We pay $5 for published recipes.

Country Kitchen Recipe
Submitted by Ms. Patricia Williams of Durham, N.C.

GRILLED MARINATED LEG OF LAMB

Marinade:

4 gralic cloves	1 t. salt
2/3 c. lemon juice	1 t. pepper
1/3 c. white wine	1/4 c. olive oil
1 T. rosemary	1/4 c. worcestershire sauce

1 - 6 lb. leg of lamb, butterflied or cut into chunks for shish kabobs.
2/3 c. Dijon mustard

Marinate meat in refrigerator for 24 hours. Grill about 20 minutes per side over medium coals, first brushing the meat with mustard and occasionally basting with marinade. Sprinkle rosemary on coals before cooking to improve flavor. (For those who are unfamiliar with lamb, it should be pinkish with a fine grain; avoid meat which is too dark or has yellowish fat.)

Idea House: Meshing Wood's Durability With Colonial Charm

The American Wood Council has built a 1978 Idea House in Raleigh combining new uses of wood in construction with the dignity and charm of early American architecture.

The house, which is open to the public daily through July 23, was designed to duplicate a colonial period home in Deerfield, Mass., the Dwight-Bernard house.

Raleigh residential designer Jay Cardy, who has a personal interest in 18th century homes in New England and Williamsburg, Va., said, "The home depicts colonial American architecture as authentically as possible. I did have to make some concessions for today, however. Remember, in colonial America, the kitchen was a separate building and there were no bathrooms."

To add depth to the "Deerfield," Cardy used a Gabrell roof design on the front of the house and a salt box slope on the rear. While the chimney had to be widened to meet code requirements, Cardy carefully retained its recessed appearance.

The dormers, he explained, may look like a designer's folly, but that's not the case.

"They are exact duplicates of the dormers on the Dwight-Bernard house, a round dormer flanked by two pointed dormers, typical of Connecticut Valley architecture of the period."

The designer describes the house as "perfect" for illustrating "the durability and versatility of wood. We're even using wooden gutters. Their life-span is documented in New England today, where you'll find 200-year-old homes with the same gutters they were built with."

"Wood is an excellent choice of materials for those energy conservation conscious times," he said. "There is really no such thing as a solid piece of wood. It is made up of hollow cells containing millions of tiny air cells. Because air is nature's finest insulator, this cullular structure has made wood six times as effective as an insulator as brick, 15 times as effective as stone or concrete and 1, 700 times as effective as aluminum."

Martin pointed out that he experimented with some new techniques on this particular house.

"We've been happy with everything we've tried." For example, the cedar shingles used on the house are unusual for the Raleigh area, yet they are wind resistant, weather resistant, virtually maintenance-free and can last as long as the house."

Authenticity has played a significant role in the choice of all building materials. Redwood siding is nailed up with steel-cut square nails. The garage doors, made of Southern Pine, are built to swing out like old barn doors. The moldings in the house are of Southern Pine instead of the usual white pine or fir, and the pine floors add to the feeling of yesterday.

Perhaps the most arresting design feature is the white pine front door with its hand carved features of fir.

The Idea House, located at 3708 Old Lassiter Mill Road, is open to the public without charge Sunday through Friday from 1 to 6 p.m. and on Saturday from 10 to 6 p.m. through July 23.

In keeping with the "Deerfield's" blend of Early American and contemporary features, it includes a second floor utility room, where the majority of items to be laundered originate, and an island kitchen design.

Interior decorations by Richard Black of Style Craft Interiors of Raleigh also reflect an eye on the past.

"We used very little wallpaper in the house," Black said. "Instead, we painted the walls with muted, subdued colors, just as the early New Englanders did."

He chose a mixture of antique furnishings and 18th century reproductions. "Our objectives were authenticity and good design — attractive but affordable."

"The Sword Of Peace"

Historical Drama Now Part Of Summer Repertory Program

Snow Camp in Alamance County is not much larger today than it was when Lord Cornwallis camped his army there after the Battle of Guilford Courthouse. Its citizens still have the warm Quaker spirit that characterized their 18th century ancestors.

This tiny community is the site of one of North Carolina's most successful outdoor historical dramas, "The Sword Of Peace," which was originally produced to commemorate the founding of a local Friends Meeting. Professor William Hardy of the University of North Carolina in Chapel Hill was engaged to write a script and an ampitheatre was built, where an estimated 38,000 patrons have watched and applauded the production since 1974.

In this scene from "The Sword Of Peace," the Clerk is reading the original minutes from a Cane Creek Friends Monthly Meeting. The minutes are preserved at Guilford College in Greensboro.

The drama unfolds in the 1750s with the founding of the Cane Creek Meeting, the state's oldest continuously active Friends Meeting, and progresses through the War of Regulation, the first major outbreak of anti-British feeling in the colonies. The story centers around Simon and Elizabeth Dixon, two members of the first Cane Creek Meeting, and chronicles the growing conflict among the Quakers between their dedication to the principles of non-violence and their belief in liberty and the dignity of man.

Of the 75 professional actors and actresses from North Carolina and neighboring states who have appeared in "The Sword Of Peace" since its premiere, several have been from the Snow Camp community and are direct descendants of the Dixons, who are buried in the nearby Cane Creek Meeting cemetary.

Last summer the historical drama broke a forty-year tradition of outdoor drama, expanding to include a repertory theatre program called The Sword Of Peace Summer Celebration. Each Wednesday through Saturday evening at 8:45 p.m. during July and August, one of three plays — including "Sword" — is presented in the forest theatre.

This year's fifth season of production opened July 4 with "Dark Of The Moon" by Howard Richardson, an intriguing tale of witchcraft with a touch of comedy; Shakespeare's "As You Like It" and "The Sword Of Peace." The three plays will be performed on alternate nights through Sept. 2.

Ticket reservations for The Sword Of Peace Summer Celebration may be obtained by calling (919) 376-6948 or by writing P.O. Box 535, Snow Camp, NC 27349.

The celebration doesn't end with repertory theatre. Sprawled over fifteen acres of natural countryside are antiquated log buildings which have been converted into shops and museums; nature trails and blooming botanical, herb and rose gardens; a picnic area and a country kitchen restaurant; and a busy "Craft Street" alive with the sights and sounds of potters, weavers, woodcrafters, quilters, and a blacksmith — all busy in their endeavor to preserve the heritage of history.

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Summertime in the South:

. . . WALKING WITH THE SPIRIT

During the week of July 16-22, you might want to turn the television set to the UNC-TV network and leave it there. This network will be sponsoring a series of local programs during this week, several of which will never again be shown in this area. It's entitled "Summertime in the South."

The series will feature some of the network's best local productions as well as general programs of interest to people of the South. And, there's something for everyone.

Covering various segments of our Southern heritage, these programs take the viewer from the new "big band" sounds of Rocky Mount native Bo Thorpe ("The Big Band is Back") to the folk style of "Freight Train" composer Elizabeth Cotten ("Me & Stella"), and from log cabin-building ("A Man and his Cabin") to democracy-building ("The Experiences of Sam Ervin").

For people interested in the Southern lifestyle, past and present, this series represents a fish-eye view of many things that give the South its distinctive "flavor." Below is a complete listing of the programming for this special week, including a short synopsis of each program.

Sunday, July 16

3:00 p.m.—SCOTTISH HIGHLAND GAMES FROM GRANDFATHER MOUNTAIN
A special encore presentation of the 1976 games held Grandfather Mountain near Linville, N.C. The show includes piping, dancing, drumming and the colorful pagentry of the Highland games.

5:00 p.m.—SUMMER SOUNDS
"Marionettes in Concert — Alene Holdahl's marionettes perform selections from "Carmen" and "Hansel and Gretel" plus a Mozart musicale.

10:00 p.m.—THE BIG BAND IS BACK
North Carolinian, Bo Thorpe, has created a new "big band" with a unique sound and has called it "Bo & Generation II." According to Thorpe, "We made a fresh, young sound with appeal not only for the young, but also for the millions of people who loved big bands, but haven't had a reason to buy an album in years." The program was taped after the group's triumphant tour of New York City.

Monday, July 17

7:00 p.m.—HORSEPENS 40
Chandler Mountain in Alabama was once a hiding place for Confederates horses but it now provides a stage for one of the finest bluegrass festivals in the United States. The 30 hours of the 1977 performance were taped and have been condensed into five foot stompin' hours that feature such groups as Lester Flatt and the Nashville Grass as well as The Country Gentlemen.

Tuesday, July 18

8:00 p.m.—GUALE
This program explores the chain of barrier islands that protects Georgia's coast from the sea, creating an awareness of the fragility of all coastal regions and wilderness everywhere.

9:00 p.m.—ME & STELLA
A tribute to Elizabeth Cotten who, as a twelve-year old Chapel Hill girl, composed the standard folk song, "Freight Train," on her guitar named "Stella." She lived in poverty until musicians Taj Mahal and Pete Seeger brought her artistic endeavors to national attention.

9:00 p.m.—WHERE THE TWISTED LAUREL GROWS
Filmed at Marshall University in Huntington, W. Va., program samples true Appalachian folk music through the talents of Lelly May Ledford, The Red Clay Ramblers and Tommy Jarrell. The Ramblers and Jarrell are native North Carolina musicians.

10:00 p.m.—APPALACHIA SOUNDING
This one-hour drama chronicles a mountain family, beginning in 1776 and continuing to the present. Taped entirely on location in Clayton, Ga., it portrays the independence, strong will, determination and love of freedom that has been passed down from early mountain settlers to present Appalachian generations.

Thursday, July 20

7:00 p.m.—SHOWBOAT
The USS North Carolina was one of the first of ten new battleships to join our fleet in World War II, remaining "on the line" longer than any other battleship. This program features actual combat footage never before shown to the public — Marine landings at Iwo Jima, kamikaze attacks at Okinawa and battleships crashing through the seas of a typhoon.

Friday, July 21

10:00 p.m.—FIRING LINE
"The Experiences of Sam Ervin" — After twenty years in the U.S. Senate, Sam Ervin still refers to himself as "just a country lawyer," but he is much more than that. An acclaimed authority on constitutional law, Ervin also chaired the Senate Watergate Committee. William F. Buckley, Jr. uses this opportunity to delve into Ervin's life, politics and philosophies.

Saturday, July 22

6:30 p.m.—ANTIQUES
"Pottery, Stoneware and Southern Crafts" — The program looks at the exhibit on display at the Greensboro Museum of History.

9:00 p.m.—HOMETOWN ALMANAC
The setting for this program is a series of performances typical of turn of the century holidays, and features re-creations of rural band concerts with such groups as the Jack Daniels Original Coronet Band and the Silver Coronet Band.

10:00 p.m.—CAROLINA DWELLING
An in-depth look at North Carolina architecture from pre-colonial days to the present.

10:30 p.m.—A MAN AND HIS CABIN
This program goes beyond the FOXFIRE series in that it combines both log cabin construction methods and interviews with mountaineers who relate their experiences in building cabins. The interviewers found most mountain cabin builders willing to tell their building secrets because they knew their skills were dying out with their generation.

Bulk Power Costs Rising For 15 EMCs

Virginia Electric and Power Co. is proposing to raise its charges for bulk power supplied to North Carolina and Virginia electric cooperatives by about 22 percent, effective Aug. 31.

The increase would cost the 19 co-ops affected about $19.4 million a year. The six Tar Heel

VEPCO Seeks 22% Rate Increase

EMCs which buy power from VEPCO would pay nearly $300,000 a year more under the proposed rates.

The rate proposal will be filed with the Federal Energy Regulatory Commission in Washington which will rule on its acceptability. The usual procedure in such cases is for the new rates to be put into effect subject to later refund if the FERC fails to approve it as submitted.

VEPCO officials say the main reason for the proposed wholesale rate hike is the start of commercial operation of a unit of the North Anna Nuclear Power Station. Another reason cited was a low rate of return on service to bulk customers. That rate is now 6.2 percent and the new schedule would boost the rate of return to 9.92 percent.

VEPCO's last bulk rate increase went into effect last November.

The six North Carolina EMCs affected by the rate request are Albemarle, Hertford; Cape Hatteras, Buxton; Edgecombe-Martin County, Tarboro; Halifax, Enfield; Roanoke, Rich Square and Tideland, Pantego.

Co-op Leaders Call On Congress

About 70 rural electric leaders from across North Carolina visited with members of the Tar Heel Congressional delegation during the 1978 Legislative Planning Conference, May 8-10, sponsored by the National Rural Electric Cooperative Association.

Representatives of Electric Membership Corporations in each congressional district visited with their respective congressmen, and a larger group visited with Senators Helms and Morgan.

The principal themes discussed included the need for continuation of the Clinch River Breeder Reactor program, the implications of the current Office of Management and Budget study of the REA program and the threatened dismemberment of the U.S. Department of Agriculture.

The two latter issues were the focal point of remarks by Sen. Herman E. Talmadge of Georgia in addressing the NRECA conference. He suggested the proposed changes in USDA would render it "incapable of serving as a viable voice for rural America."

Sen. Talmadge, who serves as chairman of the Senate Committee on Agriculture, said the most immediate threat to USDA programs is a move to shift the school breakfast and lunch programs to the proposed Department of Education. However, he added, "the Secretary of the Interior has made it clear that he wants the Forest Service and the Soil Conservation Service transferred to his department."

Touching on the OMB study, he said, "For those of you who are new to Washington, you should know that when OMB wants to study something, it's often like a cat studying a mouse before the mouse is exterminated. From all I can tell, OMB is looking for a corpse. And that corpse is the greatest cooperative movement in the history of the world — rural electrification."

Duke Power Company is seeking permission to increase its rates for bulk power purchased by nine North Carolina Electric Membership Corporations by 10.1 percent, starting Sept. 1.

The rate hike would boost the cost of power for the electric co-ops by about $15.3 million a year.

Duke Power Asks 10.1% Hike In Rates

The new rate schedule has been filed with the Federal Energy Regulatory Commission in Washington and is expected to become effective subject to refund, pending the FERC's ruling in the case.

Duke officials say the higher rates are needed because of a low rate of return on service to bulk customers. The current rate is 6.35 percent and the new schedule would raise it to 8.14 percent.

Meanwhile, as a result of an agreement between Duke and EMC officials, the rate must be linked to the power company's bulk rates for industrial customers. Both must be based on the same rate of return.

Since Duke is also seeking to raise its retail industrial rate, the rate for co-ops cannot be settled until the State Utilities Commission acts on the retail proposal. Hearings in that case are scheduled to begin in late July and a decision could be reached as early as late August.

Duke's last bulk rate increase for EMCs went into effect in 1975.

The nine EMCs which buy power from Duke are: Blue Ridge, Lenoir; Crescent, Statesville; Davidson, Lexington; Haywood, Waynesville; Pee Dee, Wadesboro; Piedmont, Hillsborough; Rutherford, Forest City; Surry-Yadkin, Dobson, and Union, Monroe.

Wake EMC "Watt Watchers" To Trim Peak Demand

Consumer-members of Wake Electric Membership Corp., Wake Forest, are being asked to become "Volunteer Watt Watchers" as part of a program to reduce the cooperative's summertime peak demand for power.

To participate in the program, consumers simply avoid using more than one major appliance at a time during the EMC's system-wide peak period, which occurs between 5 and 8 p.m. daily from July 17 through Aug. 31.

Many of the "watt watchers" are registering with the EMC as participants, but any consumer-member can contribute to the program by shifting uses of power to off-peak periods.

"We hope this voluntary load management effort will reduce our overall peak," said Wake EMC Manager Doug Leary. "If we can do that we can cut the overall demand charges we must pay Carolina Power and Light Co. — especially the penalties for having a high summer peak and low usage during other months."

Such penalties accounted for about $140,000 of the EMC's total 1977 demand charges of $1.1 million.

Registered "watt watchers" will receive reminder cards calling attention to the need for care in the use of appliances during the peak periods. In addition, the EMC will sponsor special "energy bulletins" on radio stations in the area when there's reason to believe a new peak in usage might be reached, Leary pointed out.

Under the program, participating consumers agree to use only one of five appliances at a time during the peak hours. The appliances are: electric range, clothes washer, dryer, dishwasher and water heater.

Wake EMC serves about 8,000 members in Wake, Durham, Johnston, Nash, Franklin, Granville and Vance counties.

Haywood EMC Members Also Attacking Peaks

Haywood Electric Membership Corp., Waynesville, may not have any registered "watt watchers," but consumers on the system will also be involved in an effort to reduce peak power use this summer.

Like their counterparts in the Wake EMC area, Haywood member-owners are being asked to shift their heaviest power use to off-peak hours in an attempt to cut the co-op's wholesale power costs.

"By holding the line on demand for electricity, we hope to reduce the excessive demand charges we've been paying to our power supplier," said Haywood EMC Manager John Browning. The co-op paid CP&L more than $705,000 in such charges in 1977.

Haywood's consumers are being asked to limit power use between 7 a.m. and 12 noon and between 5 and 9 p.m. Consumers are encouraged to cut down on using the "big energy users," such as washers, dryers and water heaters, Browning said.

Haywood EMC serves about 9,100 members in Haywood, Buncombe, Transylvania, Jackson and Macon counties.

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This is the sixth in a series of articles prepared especially for Carolina Country by specialists with the North Carolina Agricultural Extension Service.

By Lamar Kimbrough

ENERGY CONSERVATION IN AGRICULTURE

Legumes Give Soil "Free Nitrogen"

Suppose you and your family take a 200-mile trip to the beach this weekend. If your car gets 15 miles to the gallon, it will take 13 gallons of gas to get you to the beach and back.

This same amount of gas, if processed in a different manner, would supply enough nitrogen — about 75 pounds — for a half-acre of corn.

This illustration is cited to show how interchangeable the various uses of energy can be. Energy used for transportation is obviously not available for growing corn. But, on the other hand, energy saved in growing corn or powering automobiles could be used for heating homes and other purposes.

One way in which energy can be saved in agriculture is to grow more legumes. Legumes are nature's gift to plants. Most of them grow in association with a special bacteria called "rhizobia," which are able to produce nitrogen. Nitrogen is the fertilizer element needed in the largest amounts by most agricultural crops.

Natural gas, one of our basic energy sources, is an essential ingredient in most of the commercially produced nitrogen. As a result, rhizobia can relieve part of the pressure on our limited supplies of natural gas.

Through a process called "symbiotic nitrogen fixation," rhizobia invade the legume root hairs and form nodules. They feed on the plant and take "free nitrogen" from the air and convert it to a form needed for their growth. This nitrogen becomes as readily available to the legumes and other plants growing in the soil as commercial nitrogen applied directly to the soil

The quantity of nitrogen taken from the air and fixed by the legume bacteria differs for various legume crops. The table below indicates the amounts reported by various researchers.

This table shows that many legumes, especially forage legumes such as alfalfa and ladino clover, are able to fix fairly large amounts of nitrogen.

Legume	Average Pounds Of Nitrogen Fixed Per Acre
Alfalfa	200
Ladino clover	186
Red clover	132
Kudzu	88
Cowpeas	75
Soybeans	58
Peanuts	42

Thus, the production of legumes is highly encouraged when possible. They are not only beneficial for their nitrogen fixing capabilities, but they also provide very good forage for livestock feed. Because alfalfa and ladino are perennial species, they are more desirable than annuals in preventing soil erosion since the soil does not need to be tilled as often.

In summary, forage legumes such as alfalfa and ladino clover make good animal feeds, help to conserve the soil by reducing erosion, and help to conserve a valuable resource — energy.

Dr. Lamar Kimbrough is a crops specialist with the North Carolina Agricultural Extension Service.

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Carl T. Hicks of Walstonburg stepped down May 26 from the post of president of the Flue-Cured Tobacco Cooperative Stabilization Corp., after serving in that office since the organization was formed more than three decades ago. He was succeeded by Billy W. Hill of Jasper, Fla., who has been vice president and director of the cooperative for 20 years. In this story, Bill Humphries of the NCSU Agricultural Information staff offers a profile of Hicks and the grower cooperative he helped organize.

Carl T. Hicks:
"Member No. 1" Steps Down As Head Of Leaf Co-op

Back in 1946, Carl T. Hicks of Walstonburg paid out $5 and received Membership Certificate No. 1 in the Flue-Cured Tobacco Cooperative Stabilization Corp., which operates the price support program for flue-cured growers in five states.

In the 32 years since, the organization has grown tremendously and is now known as the largest farmers' cooperative in the Western Hemisphere. More than 700,000 certificates of membership have been issued.

Hicks, a Greene County tobacco grower and businessman, was president of the Stabilization Corporation throughout its existence, until he passed the gavel to his successor at the organization's 1978 annual meeting in May.

Hicks' interest in the plight of leaf growers dates back to 1933, during the Depression when tobacco prices dropped to six or eight cents a pound. Conditions became so critical that all markets were closed.

A group of North Carolinians, including Hicks, went to Washington to appeal for federal help. The government agreed to support tobacco prices temporarily if growers would voluntarily sign up to reduce the size of the next year's crop.

The signup was highly successful, the markets were reopened, and prices jumped to around 14 or 15 cents a pound. And before another crop was planted, Congress passed the Agricultural Adjustment Act (AAA) providing for quota and allotment programs on tobacco and other crops.

Tobacco legislation has been changed several times over the years. The basis for the present program of quota controls and price supports was established in an act approved in 1938.

Price ceilings were in effect during World War II and supports were needed at that time. Even then, however, Hicks was planning for the day when the war would be over and farmers would need a mechanism for price protection in the marketplace.

At his own expense he made several trips to Kentucky to study the burley tobacco support program already in operation there. He came away convinced that with mandatory grading on all markets, a successful program to support flue-cured prices according to grade and quality could be developed.

"Some days you could sell tobacco for 15 to 18 cents a pound and on other days tobacco of identical appearance would bring only seven or eight cents. This was very disappointing. Farmers needed price protection," Hicks recalled.

On June 1, 1946, the Flue-Cured Stabilization Corp. was chartered under the laws of North Carolina, with Hicks as president and the late E. Y. Floyd of Raleigh and Creedmoor as temporary secretary.

An office was opened in downtown Raleigh. There was $500 in the treasury, most of it contributed by Hicks.

Floyd persuaded the late Lloyd T. (Tubby) Weeks to give up his job as Wake County agricultural extension agent and become the first general manager and secretary-treasurer of the new tobacco stabilization co-op. Weeks served until his death in October, 1968, when he was succeeded by the present manager, Fred G. Bond, a former county agent in Georgia.

Initially Stabilization borrowed funds for price support operations from the Columbia, S.C., Bank for Cooperatives, but this source would have been exhausted within a short time. Arrangements were made to borrow from the federal Commodity Credit Corp. (CCC), with the tobacco received by Stabilization serving as collateral.

Over the years, from 32 crops, Stabilization has received 4.69 billion pounds under loan and has sold all except 553 million pounds currently on hand.

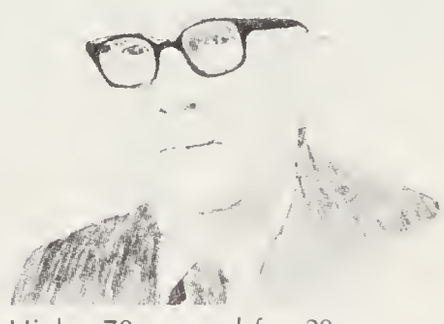
The co-op has borrowed $3.1 billion from CCC and to date has repaid $2.7 billion. Interest payments to CCC have amounted to $178 million, and profits or net gains distributed to growers have totaled $35.3 million.

Losses of principal, chiefly on the "discount" crops of 1955 and 1956, have amounted to $42.8 million.

The market value of the 32 crops sold since Stabilization started operations has been $25.7 billion.

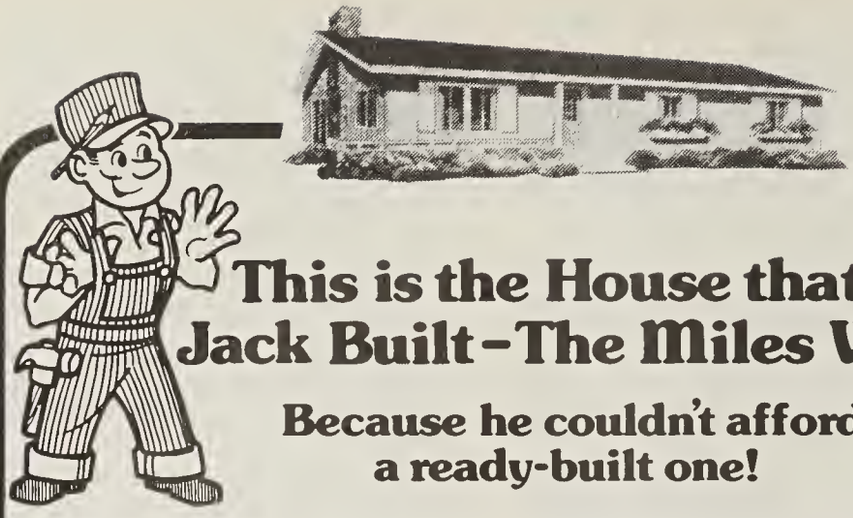
"Based upon my experience as a tobacco grower prior to 1946, I would say that that figure is three times the amount those crops would have brought if they had been sold without a support price," Hicks said.

In other words, in Hicks' opinion the support program has been worth more than $17 billion to growers over 32 years — more than half a billion dollars a year.



Courtesy of *The Flue Cured Tobacco Farmer*

Hicks, 78, served for 28 years as chairman of the N.C. Farm Bureau tobacco advisory committee. He also was a founder and first president of the Tobacco Growers Information Committee, and has held many other posts. He served four years as a State Senator. In 1972, he was named NCSU's "Agricultural Alumnus of the Year."



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Poet's Corner

July's Poet's Corner is special because young children are our featured poets. Find your favorite poem among these:

FLOWERS

Flowers are very mild.
They are very delicate like the skin of a child.
Some of them fly like a baby's cry.
As the flowers get old like bread molds.
Flowers and towers have a lot in common.
Flowers grow and waters flow.

Salena Dianne Kornegay
Age - 8
Greenville, S.C.

BIRDS

I'd like to fly like a bird,
And hear things a bird would hear,
And have beautiful colors like a bird,
And fly anywhere that was near,
I'd like to sing to people,
And let them look at me.
And let them keep on looking,
To see what they could see.

Vickie Ann Flower
Age - 6
Crumpler, N.C.

A FAMILY

A family is a special thing,
Fussing, yelling, and hearing the phone ring.
Our love is what we share,
And helping each other shows we care.
Sometimes mad or sad, mostly glad,
We have each other,
Mom, Dad, Sister, and Brother.

Cindy Michael
Age - 11
Lexington, N.C.

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